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 - [growth hormone deficiency](#)
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 - [hypohidrotic ectodermal dysplasia](#)
 - [hypophosphatemic D-resistant rickets, X-linked](#)
 - [hypothyroidism](#)
 - [immunodeficiency with hyper-IgM, type I \(hyper-IgM syndrome\)](#)
 - [leukocyte adhesion deficiency, type I](#)
 - [migraine, familial hemiplegic, with progressive cerebellar ataxia](#)
 - [mucopolysaccharidosis III B, Sanfilippo syndrome B](#)
 - [mucopolysaccharidosis type IIIA, Sanfilippo syndrome type A](#)
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 - [multiple endocrine neoplasia, type I](#)
 - [muscular dystrophy \(Duchenne and Becker\)](#)
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 - [myotonia congenita, autosomal dominant, Thomsen disease](#)
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Neurobiology

The Jackson Laboratory offers more than 492 different strains for neurobiology research.

Visit lists of JAX® Mice for neurobiology research:

- [Amyotrophic Lateral Sclerosis \(ALS\)](#)
- [Alzheimer's Disease](#)
- [Huntington's Disease](#)
- [JAX® Mice for Other Neurobiology Research Areas](#)

Neurobiology:
• Mouse Models
• Strains Newly Available
• Strains Under Development
• Research Tools
• Models List (PDF)

Visit pages of additional resources for neurobiology research:

- [Alzheimer Disease-Related Strain](#)
- [JAX Research Models - Neurodegeneration](#)
- [Neuroscience Mutagenesis Facility](#)
- [Neurobiology Research at The Jackson Laboratory](#)
- [JAX® Mice Database](#)
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Gene Expression Nervous System Atlas

The Gensat database contains a gene expression atlas of the central nervous system of the mouse based on bacterial artificial chromosomes (BACs).

Visit the [Gensat database](#).

Neurobiology Research at The Jackson Laboratory

Read published papers, JAX Notes articles and other research findings from the worldwide leader in mammalian genetics, The Jackson Laboratory.

- [JAX Notes, Winter 2002](#) - Harlequin Mouse Model, New Alzheimer's Model
- Neurobiology Research at The Jackson Laboratory
 - ALS - [Cox](#)
 - Down Syndrome - [Davisson](#)
 - Epilepsy - [Frankel](#)
 - Mutagenesis - [Frankel](#)
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 - Neuromuscular Diseases - [Cox](#)
 - Seizure Disorders - [Letts](#)
 - Synapse Formation - [Burgess](#)

Select Published Papers by Jackson Laboratory Scientists

Authors in bold indicate Jackson Laboratory scientists

Park C, Falls W, **Finger JH**, Longo-Guess CM, **Ackerman SJ**. Deletion in *Catna2*, encoding alphaN-catenin, causes cerebellar and hippocampal lamination defects and impaired startle modulation. *Nat Genet* 2002; 31:279-284.

Kang M-G, Chen C-C, Felix R, **Letts VA**, **Frankel WN**, Mori Y, Campbell KP. Biochemical and biophysical evidence for gamma 2 subunit association with neuronal voltage-activated Ca²⁺ channels. *J Biol Chem* 2001; 276:32917-32924.

Neuroscience Mutagenesis Facility

The [Neuroscience Mutagenesis Facility \(NMF\)](#) at The Jackson Laboratory is involved in the generation and preliminary characterization of new mutant mice to serve as models of

 Visit the [Neuroscience/Mutagenesis Facility Web site](#).

Important Resource for Alzheimer's Disease Research

The Jackson Laboratory has appointed a special research administrator for Alzheimer's disease (AD) to enhance the distribution of mouse models important to AD research. Dr. Carol Linder will serve as a resource for scientists seeking information about existing models, and also oversee the importation, rederivation, and distribution of new AD models.

Scientists with questions or information about potential new strains for distribution can reach Dr. Linder by e-mail (ccl@jax.org) or phone (207)-288-6230.

Neural Tube Defect Resource

This Resource maintains and distributes mouse models for neural tube defects and related research.

 Visit the [Neural Tube Defect Resource Web site](#).

Learn about JAX® Mice for Neurobiology Research

[JAX® Mice News](#), our e-mail publication, keeps the research community updated on JAX® Mice strains and Services, upcoming Courses & Conferences, and research news from the worldwide leader in mammalian genetics, The Jackson Laboratory.

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